

FLANGED TURBINE FLOW METER (HM...F SERIES)

Technical Specifications

MULTIPLE FLOW RANGES

.008 to 12,000 GPM (gal/min)

PRESSURE

Working pressure is flange dependent

ACCURACY

± 0.5% of reading or better

REPEATABILITY

± 0.1%

TURN DOWN RATIO

10:1

TEMPERATURE

Fluid temperature of -459° to 662°F

FILTRATION

300 microns

END CONNECTIONS

Equipped with flanges as per DIN or ANSI

MATERIALS OF CONSTRUCTION

- Body & Rotor Support: 316 Stainless Steel
- Rotor: Stainless Steel
- Bearings: Tungsten Carbide



Benefits:

FAST RESPONSE TIME & HIGH RESOLUTION

The Turbine wheel's low moment of inertia allows a fast acceleration from standstill up to full number of revolutions within 5 to 50 msec. For that reason, dynamic measurements can be made. The resolution can amount to as much as 35,000 pulses per liter.

WIDE TEMPERATURE RANGE

Standard turbine: -4 up to 248°F
Special models for cryogenic liquids: -459°F
Special models w/ hi-temp pickups: up to 662°F.

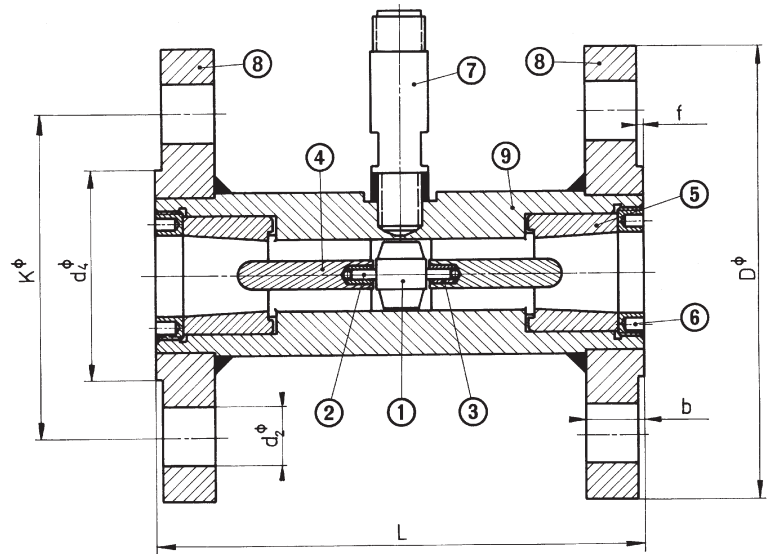
LOW CONTAMINATION RISK

The spacing of the turbine wheel and bearing mount is wide enough to protect against particles in fluid jamming the turbine wheel. And the Twist of flow in this area has a self-cleaning effect for the bearing.

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Meter Specifications

| Part Number | Range (gal/min) | K-Factor * (Pulses/ ltr) | | Frequency (0-max. Hz) | |
|------------------------------|-----------------|--------------------------|--------|-----------------------|-------|
| HM 9 EP | 0.008 to 0.2 | 139,000 | | 1970 | |
| HM 3/1.5 | 0.08 to 0.4 | 32,000 | 32,500 | 1,000 | 1,000 |
| HM 3/4 | 0.13 to 1.06 | 24,000 | 19,000 | 1,250 | 1,250 |
| HM 5/6 | 0.2 to 1.6 | 17,800 | 17,800 | 1,740 | 1,780 |
| HM 5/10 | 0.3 to 2.6 | 11,000 | 11,000 | 1,750 | 1,750 |
| HM 7 | 0.5 to 5 | 5,200 | 5,200 | 1,800 | 1,800 |
| HM 9 | 0.9 to 9 | 1,900 | 4,200 | 1,080 | 2,200 |
| HM 11 | 1.6 to 16 | 1,300 | 2,730 | 1,350 | 2,700 |
| HM 13 | 2.2 to 22 | 900 | 1,900 | 1,300 | 2,600 |
| HM 17 | 3.2 to 32 | 380 | 840 | 800 | 1,650 |
| HM 19 | 4 to 40 | 310 | 650 | 925 | 1,600 |
| HM 22 | 5.3 to 53 | 217 | 450 | 800 | 1,600 |
| HM 24 | 6.6 to 66 | 170 | 362 | 800 | 2,000 |
| HM 28 | 7.9 to 95 | 155 | 320 | 960 | 2,000 |
| HM 30 | 9.2 to 106 | 130 | 270 | 860 | 1,850 |
| HM 36 | 10.6 to 132 | 60 | 135 | 600 | 1,200 |
| HM 40 | 13.2 to 198 | 105 | 110 | 1,320 | 1,400 |
| HM 50 | 18.5 to 317 | 65 | | 1,400 | |
| HM 65 | 26.4 to 528 | 25 | | 850 | |
| HM 80 | 42.8 to 845 | 11 | | 615 | |
| HM 100 | 66 to 1320 | 7 | | 560 | |
| Pulses/ m³ | | | | | |
| HM 125 | 79 to 1744 | 4500 | | 495 | |
| HM 150 | 94 to 2642 | 3400 | | 420 | |
| HM 200 | 114 to 3540 | 415 | | 134 | |
| HM 250 | 219 to 6604 | 266 | | 150 | |
| HM 300 | 423 to 12,680 | 135 | | 110 | |



1...4=Measuring Kit

- 1 = turbine wheel
- 2 = shaft
- 3 = bearing bush
- 4 = flow rectifier

- 5 = inlet cone
- 6 = ring nut
- 7 = pickup
- 8 = flange
- 9 = body

* The wheel's axial pitch is halved for viscosities from 8 mm²/s onwards, therefore pulse rates will double for dia 9 up to 36. All K-Factors and output signals are average values. Exact specifications can be taken from individual calibration records.

Sensor Options*

| Model | Sensor Type | Temp (°F) |
|-----------|---------------------|-------------|
| VTEK/P | Pulse output sensor | -150 to 325 |
| VTEK/P-EX | Pulse output sensor | -40 to 185 |

* For additional sensors available, contact factory.

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